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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/646,728	09/646,728 04/27/2001 Shahnaz Jammal		2762-113	6097	
6449	7590 07/05/200		EXAM	INER	
ROTHWELL, FIGG, ERNST & MANBECK, P.C. 1425 K STREET, N.W.			NGUYEN	NGUYEN, NGA B	
SUITE 800			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005			3628		

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		Application No.	Applicant(s)			
Nga B. Nguyen Size	Office Action Comments	09/646,728	JAMMAL ET AL.			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edenticate of tenny by a williade where the province of 3 C.PR 1.35(b). In an event, however, may a reply be timely filed Edenticate of tenny by a williade where the province of 3 C.PR 1.35(b). In an event, however, may a reply be timely filed Edenticate of tenny by a serificate where the province of 3 C.PR 1.35(b). In an event, however, may a reply be timely filed Edenticate of tenny by a serificate where the province of 3 C.PR 1.35(b). In a event, however, may a reply be timely filed Edenticate of tenny by a serificate where the time of 3 C.PR 1.35(b). In a event, however, may a reply be timely filed I the period for reply a specificate box is than thirty (30) days, a reply within the statulatory minimum of the mailing date of this communication. Any reply received by the Office later than there more than the station is not in the mailing date of this communication. Any reply received by the Office later than there more than the mailing date of this communication. Any reply received by the Office later than there more than the mailing date of this communication. 1) Responsive to communication(s) filed on 19 April 2005. 2a) This action is FINAL. 2b) This action is FINAL. 2b) This action is reply a security of the solution and the provided of the communication. 2a) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1:24 is/are pending in the application. 4) Claim(s) 1:24 is/are application. 4) Claim(s) 1:24 is/are rejected. 5) Claim(s) 1:24 is/are rejected. 7) Claim(s) 1:24 is/are application. 4) Claim(s) 1:24 is/are application. 4) Claim(s) 1:24 is/are application. 4) Claim(s) 1:24 is/are application is objected to by the Examiner. 4) Claim(s) 1:24 is/are application is objected	Office Action Summary	Examiner	Art Unit			
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3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 1 Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Informal Patent Application (PTO-152)						
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U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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DETAILED ACTION

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 14, 2005 has been entered.

2. Claim 1-24 are pending in this application.

Response to Arguments/Amendment

This is a RCE of applicant's earlier Application No. 09/646,728. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Claim Rejections - 35 USC § 102

- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 18-21, 23, and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Tom, U.S. Patent No. 5,832,465.

Regarding to claim 18, Tom discloses a system for assessing the risk of a plurality of borrowers defaulting on financial obligations within a predefined market, comprising:

means for receiving a plurality of first input indicative of whether the borrower has previously defaulted on a financial obligation (column 4, lines 30-37; receiving bankruptcy indicator);

means for receiving a plurality of second input comprising a plurality of credit factors, the plurality of credit factors comprising a first credit factor and a second credit factor (column 3, line 32-column 4, line 37; column 10, line 51-column 11, line 5; figures 7a, 7b, item "Variable"; receiving a plurality of linguistic evidential values as credit factors contain residence, employment, debt, credit, and miscellaneous);

means for determining, using the plurality of first input and the plurality of second input, a set of weights, each weight in the set being placed on one of plurality of credit factors for each of borrowers (column 4, lines 38-40; column 6, lines 28-31, 62-67; figures 7a, 7b, item "Input Nodes, Input"; column 9, lines 5-15; translating linguistic evidential values into numeric values using weighting function); and

a general database that contains a record for each borrower, wherein the record includes the corresponding one of the plurality of sets of weights, the plurality of first inputs, and the plurality of second inputs for each borrower (column 3, lines 48-50; column 10, lines 35-50; the financial service applications is retrieved from the data storage unit 22, the data from the financial service application is entered into the model structure 24);

means for processing the record in the general database in order to calculate a probability of default for each of the borrowers (column 11, lines 5-20; figures 7a, 7b, item "Output Node, Output"; calculating a credit worthiness or probability of default for the borrower using linguistic evidential values and numeric values).

Regarding to claim 19, Tom discloses means for graphically outputting the probability of default for each of the borrowers (column 5, lines 15-33).

Regarding to claim 20, Tom discloses a computer program product comprising a computer usable medium having control logic stored therein fro causing a computer to assess the risk of a borrower defaulting on a financial obligation within a predefined market, the control logic comprising:

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first computer readable program code means for causing the computer to receive a first input indicative of whether the borrower has previously defaulted on a financial obligation (column 4, lines 30-37; receiving bankruptcy indicator);

second computer readable program code means for causing the computer to receiving a second input comprising a plurality of credit factors, the plurality of credit factors comprising a first credit factor and a second credit factor (column 3, line 32-column 4, line 37; column 10, line 51-column 11, line 5; figures 7a, 7b, item "Variable"; receiving a plurality of linguistic evidential values as credit factors contain residence, employment, debt, credit, and miscellaneous);

third computer readable program code means for causing the computer to determine, using the first input and the second input, a set of weights, each weight in the set being placed on one of plurality of credit factors (column 4, lines 38-40; column 6, lines 28-31, 62-67; figures 7a, 7b, item "Input Nodes, Input"; column 9, lines 5-15; translating linguistic evidential values into numeric values using weighting function); and

fourth computer readable program code means for causing the computer to calculate, using the plurality of credit factors and the set of weights, a probability of default for the borrower (column 11, lines 5-20; figures 7a, 7b, item "Output Node, Output"; calculating a credit worthiness or probability of default for the borrower using linguistic evidential values and numeric values).

Regarding to claim 21, Tom discloses third computer readable program code means comprises:

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fifth computer readable program code means for causing the computer to set each of the set of weights to a pre-determined value (column 6, lines 27-37; figures 7a, 7b, item "Input Nodes, Input"; the numeric values have pre-determined values range between -1.0 and 1.0);

sixth, seventh, eighth and ninth computer readable program code means for causing the computer to calculate, using the plurality of credit factors and the set of weights, a first probability of default for the borrower; to measure the first probability of default to determine a level of fitness; to determine when the level of fitness is not a good fit; and to set each of the set of weights to a new calculated value when the determining the level of fines is not a good fit (column 9, line 1-column 10, line 35; column 12, lines 6-13; optimizing the weighting function for each nodes until there is minimal error between the final output and the desired output, thus a first credit worthiness is calculated, the level of fitness is determined by error function, the credit worthiness is continuing calculated until minimizing error function).

Regarding to claim 23, Tom discloses fifth computer readable program code means for causing the computer to graphically output the probability of default for the borrower (column 5, lines 15-33).

Regarding to claim 24, Tom discloses fifth, sixth, seventh computer readable program code means for causing the computer to determine, using the first input, a level of predictive accuracy for the probability of default; to determine, when the level of predicative accuracy satisfies a pre-determined threshold, whether the set of weights are unstable; to generate, when the determining that the set of weights are unstable, a

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new of weights to be place on each of the plurality of credit factors; whereby the new set of weights are deemed sufficiently accurate and stable to be used as a basis for assessing the risk of default within the predefined market of different, new borrowers (column 9, line 1-column 10, line 35; column 12, lines 6-13; optimizing the weighting function for each nodes until there is minimal error between the final output and the desired output, thus a first credit worthiness is calculated, the level of fitness is determined by error function, the credit worthiness is continuing calculated until minimizing error function).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-17 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tom, U.S. Patent No. 5,832,465 in view of the disclosed prior art (see Specification page 14).

Regarding to claim 1, Tom discloses a method for assessing the risk of a borrower defaulting on a financial obligation within a predefined market, comprising the steps of:

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receiving a first input indicative of whether the borrower has previously defaulted on a financial obligation (column 4, lines 30-37; receiving bankruptcy indicator);

receiving a second input comprising a plurality of credit factors, the plurality of credit factors comprising a first credit factor and a second credit factor (column 3, line 32-column 4, line 37; column 10, line 51-column 11, line 5; figures 7a, 7b, item "Variable"; receiving a plurality of linguistic evidential values as credit factors contain residence, employment, debt, credit, and miscellaneous);

determining, using the first input and the second input, a set of weights, each weight in the set being assigned to one of plurality of credit factors (column 4, lines 38-40; column 6, lines 28-31, 62-67; figures 7a, 7b, item "Input Nodes, Input"; column 9, lines 5-15; translating linguistic evidential values into numeric values using weighting function); and

calculating, using the plurality of credit factors and the set of weights, a probability of default for the borrower (column 11, lines 5-20; figures 7a, 7b, item "Output Node, Output"; calculating a credit worthiness or probability of default for the borrower using linguistic evidential values and numeric values);

assessing the risk of the borrower defaulting using the calculated probability of default (column 11, lines 5-24; the output that equivalent to the calculated probability of default is 0.98308, which is an indication of strong credit worthiness, thus the risk of the borrower defaulting is assessed based on the output value).

Tom does not disclose assigning a first weight from the set of weights to the first credit factor, assigning a second weight from the set of weights to the second credit

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factor, and wherein the calculating step comprises multiplying the first credit factor by the weight assigned to the first credit factor to produce a first intermediate result, multiplying the second credit factor by the weigh assigned to the second credit factor to produce a second intermediate result, and summing the first and second intermediate results. However, Tom discloses wherein the calculating step comprises mapping the first credit factor by the weight placed on the first credit factor to produce a first intermediate result, mapping the second credit factor by the weight placed on the second credit factor to produce a second intermediate result, and summing the first and second intermediate results. Thus instead of using multiplying function, Tom using mapping function to produce a first intermediate result, a second intermediate result, and summing the first and second intermediate results. Although Tom's functions having different structures, but they have the same purpose for calculating a first intermediate result, a second intermediate result, and summing the first and second intermediate results to produce a probability of default for the borrower. Moreover, Hosmer (Applied Logistic Regression, 1989, chapter 1) discloses the logistic function and the regression function for calculating a probability value by multiplying the first credit factor by the weight assigned to the first credit factor to produce a first intermediate result, multiplying the second credit factor by the weigh assigned to the second credit factor to produce a second intermediate result, and summing the first and second intermediate results (see Specification, page 14). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify

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Tom's equations in the optimizing model for the purpose of providing more efficiency for calculating the probability of default or credit worthiness for the borrower.

Regarding to claims 2, 14, Tom discloses:

setting each of the set of weights to a pre-determined value (column 6, lines 27-37; figures 7a, 7b, item "Input Nodes, Input"; the numeric values have pre-determined values range between -1.0 and 1.0);

setting each of the plurality of credit factors to a randomly selected new value wherein the new value is within a percentage range of the previous value (column 9, lines 20-25);

calculating, using the plurality of credit factors and the set of weights, a first probability of default for the borrower; measuring the first probability of default to determine a level of fitness; determining when the level of fitness is not a good fit; and setting each of the set of weights to a new calculated value when the determining the level of fines is not a good fit (column 9, line 1-column 10, line 35; column 12, lines 6-13; optimizing the weighting function for each nodes until there is minimal error between the final output and the desired output, thus a first credit worthiness is calculated, the level of fitness is determined by error function, the credit worthiness is continuing calculated until minimizing error function).

Regarding to claim 3, Tom discloses the pre-determined value is zero (column 6, lines 27-37; figures 7a, 7b, item "Input Nodes, Input"; the numeric values have predetermined values range between -1.0 and 1.0, thus it contains 0).

Regarding to claims 4, 5, 9, 12, 22, Tom discloses using an equation to calculate a value indicative of the combination of the set of weights applied to the plurality of credit factors (column 7, line 12-column 8, line 51; evidence aggregation function); using the value as input into an equation to calculate the first probability of default for the borrower (column 9, line 1-column 10, line 35; weighting function); and using the first input and the first probability of default as inputs into an equation to determine the level of fitness (column 9, line 15-45; error function). Although Tom's equations having different structures, but they have the same purpose for calculating the combination of the set of weights (evidence aggregation function), calculating the first probability of default or credit worthiness for the borrower (weighting function), calculating the level of fitness (error function). Moreover, it is well known in the art to modify equations using for optimizing model. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Tom's equations in the optimizing model for the purpose of providing more efficiency for calculating the probability of default or credit worthiness for the borrower.

Regarding to claim 6, Tom discloses determining whether the level of fitness can be minimized by more than a pre-determined amount (column 9, lines 40-45).

Regarding to claims 7, 13, 15, Tom does not disclose the level of fitness can be minimized by a pre-determined amount is 10; the new value is within a percentage range is from 0% to 1% of the previous value. However, it is well known in the art to use different values in an equation. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Tom's to include

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the feature above in the optimizing model for the purpose of providing more efficiency for calculating the probability of default or credit worthiness for the borrower.

Regarding to claims 8, 17, Tom discloses using maximum likelihood estimation iteration to set each of the set of weights to the new calculated value (column 9, lines 40-45; column 12, lines 5-13).

Regarding to claim 10, Tom discloses graphically outputting the probability of default for the borrower (column 5, lines 15-33).

Regarding to claim 11, Tom discloses determining, using the first input, a level of predictive accuracy for the probability of default; determining, when the level of predicative accuracy satisfies a pre-determined threshold, whether the set of weights are unstable; generating, when the determining that the set of weights are unstable, a new of weights to be place on each of the plurality of credit factors; whereby the new set of weights are deemed sufficiently accurate and stable to be used as a basis for assessing the risk of default within the predefined market of different, new borrowers (column 9, line 1-column 10, line 35; column 12, lines 6-13; optimizing the weighting function for each nodes until there is minimal error between the final output and the desired output, thus a first credit worthiness is calculated, the level of fitness is determined by error function, the credit worthiness is continuing calculated until minimizing error function).

Regarding to claim 16, Tom discloses receiving a number of desired iterations input; performing a maximum likelihood estimation iteration the number of times, wherein each of the number of iterations produce a resulting set of weights; and using a

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stability process to select one of the number of the resulting set of weights (column 9,

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lines 40-45; column 12, lines 5-13).

Conclusion

8. Claims 1-24 are rejected.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to examiner Nga B. Nguyen whose telephone number is

(571) 272-6796. The examiner can normally be reached on Monday-Thursday from

9:00AM-6:00PM.

9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hyung S. Sough can be reached on (571) 272-6799.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Group receptionist whose telephone number is

(571) 272-3600.

10. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

C/o Technology Center 3600

Washington, DC 20231

Or faxed to:

(703) 872-9306 (for formal communication intended for entry).

or

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(571) 273-0325 (for informal or draft communication, please label "PROPOSED" or "DRAFT").

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Hand-delivered responses should be brought to Knox building, 401 Dulany Street, Alexandria, VA, First Floor (Receptionist).

Nga B. Nguyen

June 23. 2005